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From: Dave Larsen
Sent: Mon 6/19/2017 8:20:12 PM
Subject: RE: tech meeting notes, 09 June 2017
[1762_001.pdf](#)

Hello, just wanted to relay a few thoughts after the last tech group discussion.

In reference to Anthony's summary:

Well placements at proposed location #5, this is pretty much the same location of historic investigation wells MW1s/MW1d. MW1S was a water table well and MW1D should have been a 40' deep PZ with a 5' screen. Attached is a figure depicting the former well locations. Lab data should be available from 1997 through closure. If anyone wishes to see the lab data, just ask and I will provide.

Well placement at proposed location #6, the discussion turned to placing the proposed wells between the building and Kozaks potable wells. The concern appeared to be a desire to protect the Kozaks water supply.

Currently Kozaks have 2 private water supply wells. The original well and a replacement well that was installed under the initial PECFA investigation. The original well is supposed to have been installed above the bedrock at a depth of about 80'. This well was impacted from the release prior to REI beginning work on the historic PECFA investigation. The Kozak replacement well (UID MS184, drilled to 445', completed on 5-10-1999). The replacement well has very low yield and Kozaks were allowed to keep the old well for non-potable purposes.

I could be wrong here, but I think the original well for the motel was a shallow point installed in the basement (center section) and was determined to have been impacted by petro in the very early 1990's. A replacement well was installed along the SE corner of the building (UID DP011, drilled to 31' and completed 8-1-1991). This well was also impacted a deeper well was advanced next to it (UID FL972, drilled to 75' and completed on 9-2-1992). This well was also impacted and the current well (UID HX155, drilled to 75' and completed on 9-8-1994) was installed. HX155 was installed as far to the NW as possible to avoid potential petro impact. I don't have access to construction details on the well on the old supper club property.


Historically, the groundwater plume had extended to the west and impacted the old potable for the gas station as well as 3 wells at the motel. Currently, no evidence of petro impact exists in any of these locations. Rather than spend the limited PECFA money available installing wells west of the old gas station building, can we use the old potable well as a sampling point? As far as having a sentinel well for the currently motel well, the historic investigation had MW11 (advanced to 65' with 5' screen), which I believe was non-detect from 1998-2005, is another well necessary?


For what it's worth, I also took a quick look at groundwater concentrations from the historic investigation and max BTEX was less than 50,000 ppb, but we had reported over 150,000 ppb BTEX in MW22@20-25 in 2016. While the historic investigation didn't have any wells screened from the 20-25' depth, I still would have expected to see higher concentrations in the historic data. I was out of the office all last week and am still working on getting info on the multi-level well option and hope to have discussion points prepared for Thursdays Tech Group call.




Thank you,

David N. Larsen P.G

Hydrogeologist / Professional Geologist

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Subject: tech meeting notes, 09 June 2017

All: I attached a summary of the discussion Friday morning, regarding additional Haskell Lake well installations recommended to WDNR by EPA and LDF. The 4th Thursday (22 June) was suggested for the next tech meeting. There was also some discussion of manager meetings to address different issues, but no dates were offered. Please confirm or arrange dates for either meeting and inform appropriate attendees. Thanks.

V/r,

Anthony Greenwater, Director

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